

# 1,3-nonadiene

Inchi:	InChI=1S/C9H16/c1-3-5-7-9-8-6-4-2/h3,5,7H,1,4,6,8-9H2,2H3
InchiKey:	CLNYHERYALISIR-UHFFFAOYSA-N
Formula:	C9H16
SMILES:	C=CC=CCCCC
Mol. weight [g/mol]:	124.22

## Physical Properties

Property code	Value	Unit	Source
gf	192.96	kJ/mol	Joback Method
hf	13.56	kJ/mol	Joback Method
hfus	17.99	kJ/mol	Joback Method
hvap	34.92	kJ/mol	Joback Method
log10ws	-3.30		Crippen Method
logp	3.309		Crippen Method
mcvol	129.070	ml/mol	McGowan Method
pc	2530.27	kPa	Joback Method
rinpol	932.00		NIST Webbook
rinpol	918.00		NIST Webbook
rinpol	929.00		NIST Webbook
rinpol	930.00		NIST Webbook
tb	406.16	K	Joback Method
tc	580.81	K	Joback Method
tf	184.35	K	Joback Method
vc	0.500	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.68	J/molxK	406.16	Joback Method
cpg	256.14	J/molxK	435.27	Joback Method
cpg	268.99	J/molxK	464.38	Joback Method
cpg	281.24	J/molxK	493.49	Joback Method
cpg	292.93	J/molxK	522.60	Joback Method
cpg	304.08	J/molxK	551.71	Joback Method

cpg	314.71	J/molxK	580.81	Joback Method
dvisc	0.0046945	Paxs	184.35	Joback Method
dvisc	0.0017822	Paxs	221.32	Joback Method
dvisc	0.0008927	Paxs	258.29	Joback Method
dvisc	0.0005317	Paxs	295.25	Joback Method
dvisc	0.0003554	Paxs	332.22	Joback Method
dvisc	0.0002575	Paxs	369.19	Joback Method
dvisc	0.0001978	Paxs	406.16	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R63021&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R63021&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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